

APPENDIX C

FACILITY PLOT PLAN

APPENDIX D

PERMIT TO CONSTRUCT FORMS



DEQ AIR QUALITY PROGRAM
 1410 N. Hilton, Boise, ID 83706
 For assistance, call the
Air Permit Hotline – 1-877-5PERMIT

PERMIT TO CONSTRUCT APPLICATION

Revision 3
 04/03/07

Please see instructions on page 2 before filling out the form.

COMPANY NAME, FACILITY NAME, AND FACILITY ID NUMBER			
1. Company Name	Fiber Composites, LLC		
2. Facility Name	Meridian Facility	3. Facility ID No.	001-00115
4. Brief Project Description - One sentence or less	Fugitive Dust Control and Molder Line Expansion		
PERMIT APPLICATION TYPE			
5. <input type="checkbox"/> New Facility <input checked="" type="checkbox"/> New Source at Existing Facility <input type="checkbox"/> Unpermitted Existing Source <input type="checkbox"/> Modify Existing Source: Permit No.: _____ Date Issued: _____ <input type="checkbox"/> Required by Enforcement Action: Case No.: _____			
6. <input checked="" type="checkbox"/> Minor PTC <input type="checkbox"/> Major PTC			
FORMS INCLUDED			
Included	N/A	Forms	DEQ Verify
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Form GI – Facility Information	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Form EU0 – Emissions Units General	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	Form EU1 - Industrial Engine Information Please Specify number of forms attached: _____	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	Form EU2 - Nonmetallic Mineral Processing Plants Please Specify number of forms attached: _____	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	Form EU3 - Spray Paint Booth Information Please Specify number of forms attached: _____	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	Form EU4 - Cooling Tower Information Please Specify number of forms attached: _____	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	Form EU5 – Boiler Information Please Specify number of forms attached: _____	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	Form HMAP – Hot Mix Asphalt Plant Please Specify number of forms attached: _____	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	Form CBP - Concrete Batch Plant Please Specify number of forms attached: _____	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Form BCE - Baghouses Control Equipment	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	Form SCE - Scrubbers Control Equipment	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Forms EI-CP1 - EI-CP4 - Emissions Inventory– criteria pollutants (Excel workbook, all 4 worksheets)	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	PP – Plot Plan	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Forms MI1 – MI4 – Modeling (Excel workbook, all 4 worksheets)	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Form FRA – Federal Regulation Applicability	<input type="checkbox"/>

DEQ USE ONLY	
Date Received	
Project Number	
Payment / Fees Included? Yes <input type="checkbox"/> No <input type="checkbox"/>	
Check Number	



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PERMIT TO CONSTRUCT APPLICATION

Revision 3
 03/26/07

Please see instructions on page 2 before filling out the form.

All information is required. If information is missing, the application will not be processed.

IDENTIFICATION	
1. Company Name	Fiber Composites, LLC
2. Facility Name (if different than #1)	Meridian Facility
3. Facility I.D. No.	001-00115
4. Brief Project Description:	
FACILITY INFORMATION	
5. Owned/operated by: (✓ if applicable)	<input type="checkbox"/> Federal government <input type="checkbox"/> County government <input type="checkbox"/> State government <input type="checkbox"/> City government
6. Primary Facility Permit Contact Person/Title	Bryan Kellar Plant Engineer, Environmental Manager
7. Telephone Number and Email Address	(208) 888-6798 x108 bryank@fibercomposites.com
8. Alternate Facility Contact Person/Title	N/A
9. Telephone Number and Email Address	N/A
10. Address to which permit should be sent	420 West Franklin Road
11. City/State/Zip	Meridian, Idaho 83642
12. Equipment Location Address (if different than #10)	N/A
13. City/State/Zip	N/A
14. Is the Equipment Portable?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
15. SIC Code(s) and NAISC Code	Primary SIC: 2499 Secondary SIC (if any): 3089 NAICS: 321999, 326199
16. Brief Business Description and Principal Product	Manufacture of Extruded Decking Products
17. Identify any adjacent or contiguous facility that this company owns and/or operates	N/A
PERMIT APPLICATION TYPE	
18. Specify Reason for Application	<input type="checkbox"/> New Facility <input checked="" type="checkbox"/> New Source at Existing Facility <input type="checkbox"/> Unpermitted Existing Source <input type="checkbox"/> Modify Existing Source: Permit No.: _____ Date Issued: _____ <input type="checkbox"/> Permit Revision <input type="checkbox"/> Required by Enforcement Action: Case No.: _____
CERTIFICATION	
IN ACCORDANCE WITH IDAPA 58.01.01.123 (RULES FOR THE CONTROL OF AIR POLLUTION IN IDAHO), I CERTIFY BASED ON INFORMATION AND BELIEF FORMED AFTER REASONABLE INQUIRY, THE STATEMENTS AND INFORMATION IN THE DOCUMENT ARE TRUE, ACCURATE, AND COMPLETE.	
19. Responsible Official's Name/Title	Ken Ropski Plant Manager
20. RESPONSIBLE OFFICIAL SIGNATURE	<div style="float: right;">Date: 12/20/07</div>
21. <input checked="" type="checkbox"/> Check here to indicate you would like to review a draft permit prior to final issuance.	



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Revision 3
 03/27/07

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IDENTIFICATION						
Company Name: Fiber Composites, LLC		Facility Name: Meridian Facility		Facility ID No: 001-00115		
Brief Project Description:		Fugitive Dust Control and Molder Line Expansion				
EMISSIONS UNIT (PROCESS) IDENTIFICATION & DESCRIPTION						
1. Emissions Unit (EU) Name:	TRUCK DUMP FUGITIVE DUST					
2. EU ID Number:	BHTD					
3. EU Type:	<input checked="" type="checkbox"/> New Source <input type="checkbox"/> Unpermitted Existing Source <input type="checkbox"/> Modification to a Permitted Source -- Previous Permit #: N/A Date Issued: N/A					
4. Manufacturer:	TBD					
5. Model:	TBD					
6. Maximum Capacity:	10,000 ACFM					
7. Date of Construction:	TBD					
8. Date of Modification (if any)	N/A					
9. Is this a Controlled Emission Unit?	<input type="checkbox"/> No <input checked="" type="checkbox"/> Yes If Yes, complete the following section. If No, go to line 18.					
EMISSIONS CONTROL EQUIPMENT						
10. Control Equipment Name and ID:	Truck Dump Fugitive Dust Baghouse (C25)					
11. Date of Installation:	TBD	12. Date of Modification (if any):	N/A			
13. Manufacturer and Model Number:	TBD					
14. ID(s) of Emission Unit Controlled:	BHTD					
15. Is operating schedule different than emission units(s) involved?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No					
16. Does the manufacturer guarantee the control efficiency of the control equipment?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No (If Yes, attach and label manufacturer guarantee)					
	Pollutant Controlled					
	PM	PM10	SO ₂	NO _x	VOC	CO
Control Efficiency	0.01gr/dscf	0.01 gr/dscf	N/A	N/A	N/A	N/A
17. If manufacturer's data is not available, attach a separate sheet of paper to provide the control equipment design specifications and performance data to support the above mentioned control efficiency. TBD						
EMISSION UNIT OPERATING SCHEDULE (hours/day, hours/year, or other)						
18. Actual Operation	8,760 HR/YEAR					
19. Maximum Operation	8,760 HR/YEAR					
REQUESTED LIMITS						
20. Are you requesting any permit limits?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No (If Yes, check all that apply below)					
<input type="checkbox"/> Operation Hour Limit(s):	N/A					
<input type="checkbox"/> Production Limit(s):	N/A					
<input type="checkbox"/> Material Usage Limit(s):	N/A					
<input type="checkbox"/> Limits Based on Stack Testing	Please attach all relevant stack testing summary reports					
<input type="checkbox"/> Other:	N/A					
21. Rationale for Requesting the Limit(s):	N/A					



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IDENTIFICATION						
Company Name: Fiber Composites, LLC		Facility Name: Meridian Facility			Facility ID No: 001-00115	
Brief Project Description:		Fugitive Dust Control and Molder Line Expansion				
EMISSIONS UNIT (PROCESS) IDENTIFICATION & DESCRIPTION						
1. Emissions Unit (EU) Name:	REGRIND					
2. EU ID Number:	E45A					
3. EU Type:	<input type="checkbox"/> New Source <input type="checkbox"/> Unpermitted Existing Source <input checked="" type="checkbox"/> Modification to a Permitted Source – Previous Permit #:001-00115 Date Issued: 07/12/2002					
4. Manufacturer:	TBD					
5. Model:	TBD					
6. Maximum Capacity:	4,200 ACFM					
7. Date of Construction:	N/A					
8. Date of Modification (if any)	TBD					
9. Is this a Controlled Emission Unit?	<input type="checkbox"/> No <input checked="" type="checkbox"/> Yes If Yes, complete the following section. If No, go to line 18.					
EMISSIONS CONTROL EQUIPMENT						
10. Control Equipment Name and ID:	Regrind Baghouse (C26)					
11. Date of Installation:	N/A	12. Date of Modification (if any):	TBD			
13. Manufacturer and Model Number:	TBD					
14. ID(s) of Emission Unit Controlled:	E45A					
15. Is operating schedule different than emission units(s) involved?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No					
16. Does the manufacturer guarantee the control efficiency of the control equipment?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No (If Yes, attach and label manufacturer guarantee)					
	Pollutant Controlled					
	PM	PM10	SO ₂	NO _x	VOC	CO
Control Efficiency	0.01 gr/dscf	0.01 gr/dscf	N/A	N/A	N/A	N/A
17. If manufacturer's data is not available, attach a separate sheet of paper to provide the control equipment design specifications and performance data to support the above mentioned control efficiency. TBD						
EMISSION UNIT OPERATING SCHEDULE (hours/day, hours/year, or other)						
18. Actual Operation	8,760 HR/YEAR					
19. Maximum Operation	8,760 HR/YEAR					
REQUESTED LIMITS						
20. Are you requesting any permit limits?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No (If Yes, check all that apply below)					
<input type="checkbox"/> Operation Hour Limit(s):	N/A					
<input type="checkbox"/> Production Limit(s):	N/A					
<input type="checkbox"/> Material Usage Limit(s):	N/A					
<input type="checkbox"/> Limits Based on Stack Testing	Please attach all relevant stack testing summary reports					
<input type="checkbox"/> Other:	N/A					
21. Rationale for Requesting the Limit(s):	N/A					



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IDENTIFICATION						
Company Name: Fiber Composites, LLC		Facility Name: Meridian Facility			Facility ID No: 001-00115	
Brief Project Description:		Fugitive Dust Control and Molder Line Expansion				
EMISSIONS UNIT (PROCESS) IDENTIFICATION & DESCRIPTION						
1. Emissions Unit (EU) Name:	FINISHING LINE #5					
2. EU ID Number:	BHMB1					
3. EU Type:	<input checked="" type="checkbox"/> New Source <input type="checkbox"/> Unpermitted Existing Source <input type="checkbox"/> Modification to a Permitted Source -- Previous Permit #: N/A Date Issued: N/A					
4. Manufacturer:	TBD					
5. Model:	TBD					
6. Maximum Capacity:	6,000 ACFM					
7. Date of Construction:	TBD					
8. Date of Modification (if any)	N/A					
9. Is this a Controlled Emission Unit?	<input type="checkbox"/> No <input checked="" type="checkbox"/> Yes If Yes, complete the following section. If No, go to line 18.					
EMISSIONS CONTROL EQUIPMENT						
10. Control Equipment Name and ID:	Finishing Line Baghouse #5 (C27)					
11. Date of Installation:	TBD	12. Date of Modification (if any):	N/A			
13. Manufacturer and Model Number:	TBD					
14. ID(s) of Emission Unit Controlled:	BHMB1					
15. Is operating schedule different than emission units(s) involved?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No					
16. Does the manufacturer guarantee the control efficiency of the control equipment?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No (If Yes, attach and label manufacturer guarantee)					
	Pollutant Controlled					
	PM	PM10	SO ₂	NO _x	VOC	CO
Control Efficiency	0.01 gr/dscf	0.01 gr/dscf	N/A	N/A	N/A	N/A
17. If manufacturer's data is not available, attach a separate sheet of paper to provide the control equipment design specifications and performance data to support the above mentioned control efficiency. TBD						
EMISSION UNIT OPERATING SCHEDULE (hours/day, hours/year, or other)						
18. Actual Operation	8,760 HR/YEAR					
19. Maximum Operation	8,760 HR/YEAR					
REQUESTED LIMITS						
20. Are you requesting any permit limits?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No (If Yes, check all that apply below)					
<input type="checkbox"/> Operation Hour Limit(s):	N/A					
<input type="checkbox"/> Production Limit(s):	N/A					
<input type="checkbox"/> Material Usage Limit(s):	N/A					
<input type="checkbox"/> Limits Based on Stack Testing	Please attach all relevant stack testing summary reports					
<input type="checkbox"/> Other:	N/A					
21. Rationale for Requesting the Limit(s):	N/A					



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IDENTIFICATION						
Company Name: Fiber Composites, LLC		Facility Name: Meridian Facility			Facility ID No: 001-00115	
Brief Project Description:		Fugitive Dust Control and Molder Line Expansion				
EMISSIONS UNIT (PROCESS) IDENTIFICATION & DESCRIPTION						
1. Emissions Unit (EU) Name:	FINISHING LINE #6					
2. EU ID Number:	BHFL1					
3. EU Type:	<input checked="" type="checkbox"/> New Source <input type="checkbox"/> Unpermitted Existing Source <input type="checkbox"/> Modification to a Permitted Source -- Previous Permit #: N/A Date Issued: N/A					
4. Manufacturer:	TBD					
5. Model:	TBD					
6. Maximum Capacity:	6,048 ACFM					
7. Date of Construction:	TBD					
8. Date of Modification (if any)	N/A					
9. Is this a Controlled Emission Unit?	<input type="checkbox"/> No <input checked="" type="checkbox"/> Yes If Yes, complete the following section. If No, go to line 18.					
EMISSIONS CONTROL EQUIPMENT						
10. Control Equipment Name and ID:	Finishing Line Baghouse #6 (C28)					
11. Date of Installation:	TBD	12. Date of Modification (if any):	N/A			
13. Manufacturer and Model Number:	TBD					
14. ID(s) of Emission Unit Controlled:	TBD					
15. Is operating schedule different than emission units(s) involved?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No					
16. Does the manufacturer guarantee the control efficiency of the control equipment?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No (If Yes, attach and label manufacturer guarantee)					
	Pollutant Controlled					
	PM	PM10	SO ₂	NO _x	VOC	CO
Control Efficiency	0.01 gr/dscf	0.01 gr/dscf	N/A	N/A	N/A	N/A
17. If manufacturer's data is not available, attach a separate sheet of paper to provide the control equipment design specifications and performance data to support the above mentioned control efficiency. TBD						
EMISSION UNIT OPERATING SCHEDULE (hours/day, hours/year, or other)						
18. Actual Operation	8,760 HR/YEAR					
19. Maximum Operation	8,760 HR/YEAR					
REQUESTED LIMITS						
20. Are you requesting any permit limits?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No (If Yes, check all that apply below)					
<input type="checkbox"/> Operation Hour Limit(s):	N/A					
<input type="checkbox"/> Production Limit(s):	N/A					
<input type="checkbox"/> Material Usage Limit(s):	N/A					
<input type="checkbox"/> Limits Based on Stack Testing	Please attach all relevant stack testing summary reports					
<input type="checkbox"/> Other:	N/A					
21. Rationale for Requesting the Limit(s):	N/A					



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IDENTIFICATION						
Company Name: Fiber Composites, LLC		Facility Name: Meridian Facility			Facility ID No: 001-00115	
Brief Project Description:		Fugitive Dust Control and Molder Line Expansion				
EMISSIONS UNIT (PROCESS) IDENTIFICATION & DESCRIPTION						
1. Emissions Unit (EU) Name:	ENTEK DUST COLLECTOR					
2. EU ID Number:	WFVAC					
3. EU Type:	<input checked="" type="checkbox"/> New Source <input type="checkbox"/> Unpermitted Existing Source <input type="checkbox"/> Modification to a Permitted Source -- Previous Permit #: N/A Date Issued: N/A					
4. Manufacturer:	TBD					
5. Model:	TBD					
6. Maximum Capacity:	3,000 ACFM					
7. Date of Construction:	TBD					
8. Date of Modification (if any)	N/A					
9. Is this a Controlled Emission Unit?	<input type="checkbox"/> No <input checked="" type="checkbox"/> Yes If Yes, complete the following section. If No, go to line 18.					
EMISSIONS CONTROL EQUIPMENT						
10. Control Equipment Name and ID:	Molder Baghouse (C29)					
11. Date of Installation:	TBD	12. Date of Modification (if any):	N/A			
13. Manufacturer and Model Number:	Adaptive Engineering DC49x8					
14. ID(s) of Emission Unit Controlled:	WFVAC					
15. Is operating schedule different than emission units(s) involved?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No					
16. Does the manufacturer guarantee the control efficiency of the control equipment?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No (If Yes, attach and label manufacturer guarantee)					
	Pollutant Controlled					
	PM	PM10	SO ₂	NO _x	VOC	CO
Control Efficiency	0.01 gr/dscf	0.01 gr/dscf	N/A	N/A	N/A	N/A
17. If manufacturer's data is not available, attach a separate sheet of paper to provide the control equipment design specifications and performance data to support the above mentioned control efficiency. TBD						
EMISSION UNIT OPERATING SCHEDULE (hours/day, hours/year, or other)						
18. Actual Operation	8,760 HR/YEAR					
19. Maximum Operation	8,760 HR/YEAR					
REQUESTED LIMITS						
20. Are you requesting any permit limits?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No (If Yes, check all that apply below)					
<input type="checkbox"/> Operation Hour Limit(s):	N/A					
<input type="checkbox"/> Production Limit(s):	N/A					
<input type="checkbox"/> Material Usage Limit(s):	N/A					
<input type="checkbox"/> Limits Based on Stack Testing	Please attach all relevant stack testing summary reports					
<input type="checkbox"/> Other:	N/A					
21. Rationale for Requesting the Limit(s):	N/A					



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IDENTIFICATION						
Company Name: Fiber Composites, LLC		Facility Name: Meridian Facility			Facility ID No: 001-00115	
Brief Project Description:		Fugitive Dust Control and Molder Line Expansion				
EMISSIONS UNIT (PROCESS) IDENTIFICATION & DESCRIPTION						
1. Emissions Unit (EU) Name:	WET WOOD SILO					
2. EU ID Number:	BVVWS					
3. EU Type:	<input checked="" type="checkbox"/> New Source <input type="checkbox"/> Unpermitted Existing Source <input type="checkbox"/> Modification to a Permitted Source -- Previous Permit #: N/A Date Issued: N/A					
4. Manufacturer:	TBD					
5. Model:	TBD					
6. Maximum Capacity:	2,660 ACFM					
7. Date of Construction:	TBD					
8. Date of Modification (if any)	N/A					
9. Is this a Controlled Emission Unit?	<input type="checkbox"/> No <input checked="" type="checkbox"/> Yes If Yes, complete the following section. If No, go to line 18.					
EMISSIONS CONTROL EQUIPMENT						
10. Control Equipment Name and ID:	Wet Wood Silo Bin Vent (C30)					
11. Date of Installation:	TBD	12. Date of Modification (if any):		N/A		
13. Manufacturer and Model Number:	MAC 98RT-STY3					
14. ID(s) of Emission Unit Controlled:	BVVWS					
15. Is operating schedule different than emission units(s) involved?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No					
16. Does the manufacturer guarantee the control efficiency of the control equipment?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No (If Yes, attach and label manufacturer guarantee)					
	Pollutant Controlled					
	PM	PM10	SO ₂	NO _x	VOC	CO
Control Efficiency	0.01 gr/dscf	0.01 gr/dscf	N/A	N/A	N/A	N/A
17. If manufacturer's data is not available, attach a separate sheet of paper to provide the control equipment design specifications and performance data to support the above mentioned control efficiency. TBD						
EMISSION UNIT OPERATING SCHEDULE (hours/day, hours/year, or other)						
18. Actual Operation	8,760 HR/YEAR					
19. Maximum Operation	8,760 HR/YEAR					
REQUESTED LIMITS						
20. Are you requesting any permit limits?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No (If Yes, check all that apply below)					
<input type="checkbox"/> Operation Hour Limit(s):	N/A					
<input type="checkbox"/> Production Limit(s):	N/A					
<input type="checkbox"/> Material Usage Limit(s):	N/A					
<input type="checkbox"/> Limits Based on Stack Testing	Please attach all relevant stack testing summary reports					
<input type="checkbox"/> Other:	N/A					
21. Rationale for Requesting the Limit(s):	N/A					



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PERMIT TO CONSTRUCT APPLICATION

Revision 3
04/02/07

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IDENTIFICATION										
Company Name: Fiber Composites, LLC				Facility Name: Meridian Facility				Facility ID No.: 001-00115		
Brief Project Description:										
IDENTIFICATION				BAGHOUSE			BAGS			
1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.
Emission Unit	EU ID No.	CE ID No.	Stack ID No.	Baghouse Manufacturer	Baghouse Model No.	Type	Type	Size (Dia x Ht)	No. of Bags	Air to Cloth
Truck Dump Fugitive Dust	BHTD	C25	BHTD	TBD	TBD	Pulse Jet	TBD	TBD	TBD	TBD
Regrind Baghouse	E45A	C26	E45A	TBD	TBD	Pulse Jet	Polyester	TBD	TBD	TBD
Finishing Line Baghouse #5	BHMB 1	C27	BHMB 1	Dantherm Filtration	MJB-84/XL/8-11	Pulse Jet	Polyester needle felt	TBD	88 3D	TBD
Finishing Line Baghouse #6	BHFL1	C28	BHFL 1	TBD	TBD	Pulse Jet	Polyester	TBD	TBD	TBD
Entek Dust Collector Baghouse	WFVA C	C29	WFVA C	Adaptive Engineering	DC49x8	Pulse Jet	PE Egg Shell	0.45 dia	49	6.13
Wet Wood Silo Bin Vent	BVWW S	C30	BVW WS	MAC	96RT39-STY3	Pulse Jet	Polyester	0.45x6.0	39	1.38

[illegible]



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PERMIT TO CONSTRUCT APPLICATION

Revision 2
4/5/2007

Please see instructions on page 2 before filling out the form.

Company Name: Fiber Composites, LLC

Facility Name:

Meridian Facility

Facility ID No.:

001-00115

Brief Project Description:	Fugitive Dust Control and Molder Line Expansion
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SUMMARY OF FACILITY WIDE EMISSION RATES FOR CRITERIA POLLUTANTS - FUGITIVE SOURCES

1.

2.

3.

PM₁₀

$$\underline{\text{SO}_2}$$
 NO_x

CO

VOC

Lead

Fugitive Source Name

Fugitive ID

lb/hr

T/vr

lb/hr

T/yr

lb/hr

T/yr

lb/hr

T/yr

lb/hr

T/yr

lb/hr

T/yr

Fugitive Source(s)

	N/A
--	-----

(insert more rows as needed)

Total

[illegible]



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PERMIT TO CONSTRUCT APPLICATIONRevision 3
4/5/2007

Please see instructions on page 2 before filling out the form.

Company Name: Fiber Composites, LLC

Facility Name:	Meridian Facility
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Facility ID No.:	001-00115
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Brief Project Description:	Fugitive Dust Control and Molder Line Expansion
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SUMMARY OF EMISSIONS INCREASE (PROPOSED PTE - PREVIOUSLY MODELED PTE) - FUGITIVE SOURCES

[illegible]



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PERMIT TO CONSTRUCT APPLICATION


Revision 3
4/5/2007


Please see instructions on page 2 before filling out the form.

Company Name:	Fiber Composites, LLC
Facility Name:	Meridian Facility
Facility ID No.:	001-00115
Brief Project Description:	Fugitive Dust Control and Molder Line Expansion

SUMMARY OF AIR IMPACT ANALYSIS RESULTS - CRITERIA POLLUTANTS

		1.		2.	3.	4.		5.
Criteria Pollutants	Averaging Period	Significant Impact Analysis Results (µg/m3)	Significant Contribution Level (µg/m3)	Full Impact Analysis Results (µg/m3)	Background Concentration (µg/m3)	Total Ambient Impact (µg/m3)	NAAQS (µg/m3)	Percent of NAAQS
PM ₁₀	24-hour	N/A	5	59.1	90.0	149.1	150	99%
	Annual	N/A	1	23.5	25.1	48.6	90	97%
SO ₂	3-hr	N/A	25	N/A	N/A	N/A	1300	N/A
	24-hr	N/A	5	N/A	N/A	N/A	365	N/A
	Annual	N/A	1	N/A	N/A	N/A	80	N/A
NO ₂	Annual	N/A	1	N/A	N/A	N/A	100	N/A
CO	1-hr	N/A	2000	N/A	N/A	N/A	10000	N/A
	8-hr	N/A	500	N/A	N/A	N/A	40000	N/A

	DEQ AIR QUALITY PROGRAM 1410 N. Hilton, Boise, ID 83706 For assistance, call the Air Permit Hotline - 1-877-5PERMIT	PERMIT TO CONSTRUCT APPLICATION Revision 3 3/27/2007								
<i>Please see instructions on page 2 before filling out the form.</i>										
Company Name:		Fiber Composites, LLC								
Facility Name:		Meridian Facility								
Facility ID No.:		001-00115								
Brief Project Description:		Fugitive Dust Control and Molder Line Expansion								
POINT SOURCE STACK PARAMETERS										
1.	2.	3a.	3b.	4.	5.	6.	7.	8.	9.	10.
Emissions units	Stack ID	UTM Easting (m)	UTM Northing (m)	Base Elevation (m)	Stack Height (m)	Modeled Diameter (m)	Stack Exit Temperature (K)	Stack Exit Flowrate (acfm)	Stack Exit Velocity (m/s)	Stack orientation (e.g., horizontal, rain cap)
Point Source(s)										
See Appendix E and F of report										
(insert more rows as needed)										

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	<i>Please see instructions on page 2 before filling out the form.</i>									
Company Name:		Fiber Composites, LLC								
Facility Name:		Meridian Facility								
Facility ID No.:		001-00115								
Brief Project Description:		Fugitive Dust Control and Molder Line Expansion								
POINT SOURCE STACK PARAMETERS										
1.	2.	3a.	3b.	4.	5.	6.	7.	8.	9.	10.
Emissions units	Stack ID	UTM Easting (m)	UTM Northing (m)	Base Elevation (m)	Stack Height (m)	Modeled Diameter (m)	Stack Exit Temperature (K)	Stack Exit Flowrate (acfm)	Stack Exit Velocity (m/s)	Stack orientation (e.g., horizontal, rain cap)
Point Source(s)										



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PERMIT TO CONSTRUCT APPLICATION

Revision 3
4/5/2007

Please see instructions on page 2 before filling out the form.

Company Name: Fiber Composites, LLC

Facility Name:

Meridian Facility

Facility ID No.:

001-00115

Brief Project Description:	Fugitive Dust Control and Molder Line Expansion
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FUGITIVE SOURCE PARAMETERS

[illegible]

Please see instructions on page 2 before filling out the form.

Meridian Facility

001-00115

Brief Project Description:	Fugitive Dust Control and Molder Line Expansion
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BUILDING AND STRUCTURE INFORMATION

Page 8



DEQ AIR QUALITY PROGRAM
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PERMIT TO CONSTRUCT APPLICATION

Revision 3
03/26/07

Please see instructions on page 2 before filling out the form.

IDENTIFICATION		
Company Name:	Facility Name:	Facility ID No:
Fiber Composites, LLC	Meridian Facility	001-00115
Brief Project Description: <u>Fugitive Dust Control and Molder Line Expansion</u>		
APPLICABILITY DETERMINATION		
1. Will this project be subject to 1990 CAA Section 112(g)? (Case-by-Case MACT)	<input checked="" type="checkbox"/> NO	<input type="checkbox"/> YES*
* If YES, applicant must submit an application for a case-by-case MACT determination [IAC 567 22-1(3)"b" (8)]		
2. Will this project be subject to a New Source Performance Standard? (40 CFR part 60)	<input checked="" type="checkbox"/> NO	<input type="checkbox"/> YES*
*If YES, please identify sub-part: _____		
3. Will this project be subject to a MACT (<u>M</u> aximum <u>A</u> chievable <u>C</u> ontrol <u>T</u> echnology) regulation? (40 CFR part 63)	<input checked="" type="checkbox"/> NO	<input type="checkbox"/> YES*
*If YES, please identify sub-part: _____		
THIS ONLY APPLIES IF THE PROJECT EMITS A HAZARDOUS AIR POLLUTANT		
4. Will this project be subject to a NESHAP (<u>N</u> ational <u>E</u> mission <u>S</u> tandards for <u>H</u> azardous <u>A</u> ir <u>P</u> ollutants) regulation? (40 CFR part 61)	<input checked="" type="checkbox"/> NO	<input type="checkbox"/> YES*
*If YES, please identify sub-part: _____		
5. Will this project be subject to PSD (<u>P</u> revention of <u>S</u> ignificant <u>D</u> eterioration)? (40 CFR section 52.21)	<input checked="" type="checkbox"/> NO	<input type="checkbox"/> YES
6. Was netting done for this project to avoid PSD?	<input checked="" type="checkbox"/> NO	<input type="checkbox"/> YES*
*If YES, please attach netting calculations		
IF YOU ARE UNSURE HOW TO ANSWER ANY OF THESE QUESTIONS, CALL THE AIR PERMIT HOTLINE AT 1-877-5PERMIT		

FIBER COMPOSITES MERIDIAN SOURCE PARAMETERS
NEARBY SOURCE (PLUM CREEK) POINT SOURCE PARAMETERS
NEARBY SOURCE (PLUM CREEK) VOLUME SOURCE PARAMETERS
FIBER COMPOSITES MERIDIAN EMISSION RATE PARAMETERS

TABLE E-1. FIBER COMPOSITES MERIDIAN SOURCE PARAMETERS

Emission Point ID	Description^a	Orientation	Emission Rate (lb/hr)	Stack Height (ft)	Temperature^b (° F)	Flow (acfm)	Diameter (in)
<i>Currently Permitted Emission Points</i>							
BH2	Noltec Dryer	Vertical	0.041	30	250	2,583	11.52
C1A	Noltec Storage Silo Baghouse	Vertical	0.014	18	Ambient	675	6.00
C3	Donaldson Baghouse	Vertical	0.279	40	Ambient	13,000 ^c	22.00
C7	HDPE Silo Bin Vent #1	Vertical	0.034	54	Ambient	1,600	7.00
C12	Line #10 Molder Baghouse	Vertical	0.257	37.83	Ambient	6,320	20.00
C13	Line #11 Molder Baghouse	Vertical	0.271	39.75	Ambient	6,653	20.00
C15	Entek Dryer #1 Baghouse	Vertical	0.396	50	200	12,500	32.00
C16	Entek Dryer #2 Baghouse	Vertical	0.396	50	200	12,500	32.00
C17	10 RA Baghouse	Vertical	0.867	37	Ambient	22,000	30.00
C18	8 RA Baghouse	Vertical	0.394	36.83	Ambient	10,000	30.00
C21	Line #12 Molder Baghouse	Vertical	0.251	37.83	Ambient	6,153	20.00
C22	Big Mac Baghouse	Vertical	0.478	40	Ambient	11,156	28.00
C23	Dry Wood Day Bin Filter #1	Vertical	0.020	16	Ambient	915	7.00
C24	Dry Wood Day Bin Filter #2	Vertical	0.020	16	Ambient	915	7.00
<i>Proposed New Emission Points</i>							
BHTD	Truck Dump Fugitive Dust	Vertical	0.789	40	Ambient	10,000	30.00
E45A	Regrind Baghouse	Vertical	0.331	45	Ambient	4,200	14.66 ^d

TABLE E-1. FIBER COMPOSITES MERIDIAN SOURCE PARAMETERS (CONT.)

Emission Point ID	Description^a	Orientation	Emission Rate (lb/hr)	Stack Height (ft)	Temperature^b (° F)	Flow (acfm)	Diameter (in)
<i>Proposed New Emission Points</i>							
BHMB1	Finishing Line Baghouse #5	Vertical	0.489	40	Ambient	6,000	20.00 ^e
BHFL1	Finishing Line Baghouse #6	Vertical	0.492	39.75	Ambient	6,048	20.00
WVAC	Entek Dust Collector Baghouse	Vertical	0.244	40	Ambient	3,000	16.00
BVWWS	Wet Wood Silo Bin Vent	Vertical	0.210	40	Ambient	2,660	16.00

^a Descriptions for existing permitted sources have been updated from descriptions in Fiber Composites Meridian's Tier II operating permit (#001-00115).

^b Existing permitted sources with ambient temperatures were originally modeled at constant 68 °F in the August 2005 Fiber Composites Meridian Permit to Construct (PTC) application.

^c The C3 Donaldson baghouse flow rate increased from 12,143 acfm (in the August 2005 Fiber Composites Meridian PTC application) to 13,000 acfm.

^d The E45A regrind baghouse stack area is 12.5 in x 13.5 in (i.e., the equivalent diameter is 14.66 in).

^e According to Dantherm Filtration, the duct associated with Finishing Line Baghouse #5 has a diameter of 16 in; however, the modeling analysis uses a 20 in diameter for conservatism.

TABLE E-2. NEARBY SOURCE (PLUM CREEK) POINT SOURCE PARAMETERS

Emission Point ID	Description^a	Orientation	Emission Rate (lb/hr)	Stack Height (ft)	Temperature (° F)	Flow (acfm)	Diameter (in)
SRC1	Cyclone #1	Horizontal	2.88	86	70	28,000	38.2
SRC2	Cyclone #2	Horizontal	2.88	86	70	28,000	38.2
SRC3	Baghouse	Vertical	1.38	53	70	20,000	187
SRC4	Cyclone #4	Vertical	2.06	25	70	30,000	132

^a Source parameters obtained from Plum Creek Meridian Facility Permit to Construct and Tier II Permit Modification Application submitted in April, 2006.

TABLE E-3. NEARBY SOURCE (PLUM CREEK) VOLUME SOURCE PARAMETERS

Emission Point ID	Description^a	Emission Rate (lb/hr)	Release Height (ft)	Internal Lat. Dimension (ft)	Internal Vert. Dimension (ft)
EGTRUCK	Edge Glue Truck Bin	0.0025	11.5	4.65	20.81

^a Source parameters obtained from Plum Creek Meridian Facility Permit to Construct and Tier II Permit Modification Application submitted in April, 2006.

TABLE E-4. FIBER COMPOSITES MERIDIAN EMISSION RATE PARAMETERS

Emission Point ID	Description^a	Flowrate (acfm)	Temperature^b (° F)	Moisture Content (%)	Grain Loading^c (gr/dscf)	Emission Rate (lb/hr)	Emission Rate (tpy)
BH2	Noltec Dryer	2,583	250	0	0.0025	0.041	0.181
C1A	Noltec Storage Silo Baghouse	675	Ambient	0	0.0025	0.014	0.063
C3	Donaldson Baghouse	13,000 ^d	Ambient	0	0.0025	0.279	1.220
C7	HDPE Silo Bin Vent #1	1,600	Ambient	0	0.0025	0.034	0.150
C12	Line #10 Molder Baghouse	6,320	Ambient	5	0.005	0.257	1.127
C13	Line #11 Molder Baghouse	6,653	Ambient	5	0.005	0.271	1.186
C15	Entek Dryer #1 Baghouse	12,500	200	8	0.005	0.396	1.734
C16	Entek Dryer #2 Baghouse	12,500	200	8	0.005	0.396	1.734
C17	10 RA Baghouse	22,000	Ambient	8	0.005	0.867	3.799
C18	8 RA Baghouse	10,000	Ambient	8	0.005	0.394	1.727
C21	Line #12 Molder Baghouse	6,153	Ambient	5	0.005	0.251	1.097
C22	Big Mac Baghouse	11,156	Ambient	0	0.005	0.478	2.094
C23	Dry Wood Day Bin Filter #1	915	Ambient	0	0.0025	0.020	0.086
C24	Dry Wood Day Bin Filter #2	915	Ambient	0	0.0025	0.020	0.086
BHTD	Truck Dump Fugitive Dust	10,000	Ambient	8	0.01	0.789	3.454
E45A	Regrind Baghouse	4,200	Ambient	8	0.01	0.331	1.451
BHMB1	Finishing Line Baghouse #5	6,000	Ambient	5	0.01	0.489	2.140
BHFL1	Finishing Line Baghouse #6	6,048	Ambient	5	0.01	0.492	2.157
WVAC	Entek Dust Collector Baghouse	3,000	Ambient	5	0.01	0.244	1.070
BVWWS	Wet Wood Silo Bin Vent	2,660	Ambient	8	0.01	0.210	0.919

^a Descriptions for existing permitted sources have been updated from descriptions in Fiber Composites Meridian's Tier II operating permit (#001-00115).

^b Existing permitted sources with ambient temperatures were originally modeled at constant 68 °F in the August 2005 Fiber Composites Meridian Permit to Construct (PTC) application.

^c Standard temperature assumed to be 70 °F.

^d The C3 Donaldson baghouse flow rate increased from 12,143 acfm (in the August 2005 Fiber Composites Meridian PTC application) to 13,000 acfm.

APPENDIX F

MODELING INPUT AND OUTPUT FILES (CD-ROM)